



Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402

February 28, 2012

10 CFR 72.4

ATTN: Document Control Desk
Director, Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Sequoyah Nuclear Plant, Units 1 and 2
Facility Operating License Nos. DPR-77 and DPR-79
NRC Docket Nos. 50-327, 50-328, and 72-034

Subject: Annual 2012 Independent Spent Fuel Storage Installation Effluent Release Report

Reference: Certificate Number 1014, Certificate of Compliance for Spent Fuel Storage Casks, Appendix A, Section 5.4, "Radioactivity Effluent Control Program," Amendment Nos. 1, 2, and 5

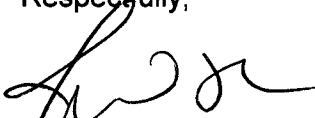
Sequoyah Nuclear Plant (SQN) complies with the referenced Certificate of Compliance (CoC) for spent fuel storage casks in accordance with 10 CFR 72.212, "Conditions of general license issued under 10 CFR 72.210." Appendix A, Section 5.4, of the CoC requires the submittal of an annual radioactive effluent release report in accordance with 10 CFR 72.44(d)(3). The purpose of this letter is to fulfill this reporting requirement for the 2011 calendar year. As specified in the CoC, "The HI-STORM 100 Cask System does not create any radioactive materials or have any radioactive waste treatment systems." There is no gaseous or liquid radioactive effluent pathway attributed to the spent fuel stored in the Independent Spent Fuel Storage Installation (ISFSI). SQN provides the following confirmatory information that supports compliance with the CoC and continued assurance of the ISFSI confinement boundary. The gamma isotopic analyses performed on the SQN radiological environmental monitoring plan monthly air filter composite samples and weekly charcoal cartridge samples for the 2011 monitoring year did not detect any fission or activation product radionuclides, related to the operation of SQN operating Units 1 and 2 or the SQN ISFSI. The levels of naturally occurring radionuclides identified by these analyses were consistent with the normal background levels measured in previous monitoring years. The lower limit of detection (LLD) values achieved for these analyses met the LLD requirements in the SQN Offsite Dose Calculation Manual Table 2.3-3. Accordingly, it is concluded that there were no radionuclides released to the environment in liquid or gaseous effluents during the previous 12 months of operation. This data will be reported in the SQN Annual Radiological Environmental Operating Report to be submitted to the NRC on or before May 1, 2012.

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This letter contains no regulatory commitments. If you have any questions please contact Geoffrey Cook at (423) 843-7170.

Respectfully,

A handwritten signature in black ink, appearing to read 'J. W. Shea', written in a cursive style.

J. W. Shea
Manager, Corporate Nuclear Licensing